

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices

THE LIBRARY OF
CONGRESS
SERIAL ACQUISITION
APR 8 1944
Copy
GOVT. SOURCE

MAINE AGRICULTURAL EXPERIMENT STATION.

BULLETIN No. 18.

SECOND SERIES.

INSPECTION OF FERTILIZERS, 1895.

W. H. JORDAN, Director.

J. M. BARTLETT, L. H. MERRILL, Chemists.

The Maine Legislature enacted at the session of 1893, a new law for the regulation of the sale and analysis of commercial fertilizers.

This change of law was sought in order to accomplish two objects:

1. The providing of funds that can be legally used, sufficient to pay the expenses of a proper inspection.

2. A provision whereby information as to the composition of the goods offered for sale can be given to the would-be purchaser at an earlier date than has heretofore been possible.

This law makes the following requirement upon manufacturers, importers or dealers who propose to sell or offer for sale their goods in the States. These briefly stated are:

1. Marking the bags properly.*

2. Filing annually a certificate with the director of the Station giving the manufacturer's or dealer's name, place of business, place of manufacture, name of brand of fertilizer and the guaranteed composition of the same.*

3. Depositing annually, unless excused by the director under certain conditions, a sample of fertilizer, with an accompanying affidavit that this sample "corresponds within reasonable limits to the fertilizer which it represent." These samples are designated in this bulletin as "manufacturer's samples."*

4. The annual payment of an analysis fee of fifteen dollars for every brand of complete fertilizer licensed.

* Notice.—That requirements 1, 2 and 3 apply to all brands of fertilizers, whether thirty tons are sold or not.

5. All brands of which thirty tons or more are not sold are exempt from the last provision.

The law also imposes upon the Director of the Maine Agricultural Experiment Station certain duties which are :

1. The issuing of licenses to such manufacturers as comply with the above named requirements.

2. The analysis of the samples deposited by the manufacturers.

3. The selection of samples in the open market of all brands of fertilizers sold or offered for sale in the state, with the subsequent analysis of the samples.

4. The publication of bulletins or reports, giving the results of the inspection.

In accordance with the foregoing requirements, eighteen companies representing seventy-two brands of fertilizers have complied with the law, and the brands mentioned below can be sold legally in the state to the extent of thirty tons or more during the year 1895.

The analyses which appear here are those made from manufacturers' samples, which are deposited under affidavit that they are reasonably near in composition to the corresponding brands found in the market.

The figures which are given as the percentages of valuable ingredients guaranteed by the manufacturers are the minimum percentages of the guarantee. If, for instance the guarantee is 2 to 3 per cent. of nitrogen, it is evident that the dealer can not be held to have agreed to furnish more than 2 per cent., and so this percentage is taken as actual guarantee. The figures under the head of "found" are those showing the actual composition of the samples deposited.

It will be seen that no estimated commercial valuation has been given to the various brands of goods here represented. The trade values for 1895 have not yet been agreed upon, but if any one wishes to calculate the valuation he can do so by using the prices adopted for 1894, which are as follows :

Nitrogen,	-	-	-	-	-	18 1-2 cents
Soluble phosphoric acid,	-	-	-	-	-	6 "
Reverted	"	"	-	-	-	5 1-2 "
Insoluble	"	"	-	-	-	2 "
Potash, as muriate,	-	-	-	-	-	4 1-2 "
Potash, as sulphate,	-	-	-	-	-	5 "

The commercial valuation will be accurate enough as a means of comparison if the following rule is adopted :

Multiply 18 1-2 cents by the percentage of nitrogen "found" and this product by twenty;

Multiply 6 cents by the percentage of available phosphoric acid found and the product by twenty;

Multiply 2 cents by the percentage of insoluble phosphoric acid found and the product by twenty;

Multiply 5 cents by the percentage of potash found and this product by twenty.

The sum of these four final products will be the commercial valuation on the basis taken.

The valuation will be useful only as a means of determining whether one fertilizer has a selling price greater than another in proportion to some standard of valuation. *Such commercial valuations do not necessarily measure the relative value for use on a particular farm.*

MANUFACTURERS WHO HAVE COMPLIED WITH THE LAW FOR THE YEAR 1895.

Hiram Blanchard, Eastport, two brands, manufactured at Eastport, Maine.

Bowker Fertilizer Co., Boston, Mass., fourteen brands, manufactured at Brighton, Mass., and Elizabeth Port, N. Y.

Bradley Fertilizer Co., Boston, Mass., six brands, manufactured at No. Weymouth, Mass.

Clark's Cove Fertilizer Co., New York, N.Y., or Boston, Mass., five brands, manufactured at New York, N.Y., or Boston, Mass.

Cleveland Dryer Co., Boston, Mass., three brands, manufactured at Cleveland, O., or Boston, Mass.

Crocker Fertilizer and Chemical Co., Buffalo, N.Y., four brands, manufactured at Buffalo, N.Y.

Cumberland Bone Phosphate Co., Portland, Me., and Boston, Mass., four brands, manufactured at Boothbay Harbor, Me.

E. Frank Coe Co., New York, N.Y., five brands, manufactured at New York, N.Y.

F. S. Farrar & Co., Bangor, Me., two brands, manufactured at Bangor, Me.

D. H. Foster, Syracuse, N. Y., three brands, manufactured at New York, N. Y.

Great Eastern Fertilizer Co., Rutland, Vt., four brands, manufactured at New York, N.Y.

Henry F. Tucker, Boston, Mass., two brands, manufactured at Barren Island, N.Y.

Pacific Guano Co., Boston, Mass., two brands, manufactured at Boston, Mass.

Quinnipiac Co., New York, N.Y., four brands, manufactured at Union Landing, N. J.

John S. Reese & Co., Baltimore, Md., one brand, manufactured at Carteret, N. J.

Sagadahoc Fertilizer Co., Bowdoinham, Me., three brands, manufactured at Bowdoinham, Me.

Standard Fertilizer Co., Boston, Mass., four brands, manufactured at Duxbury, Mass.

Williams & Clark Fertilizer Co., New York, N.Y., and Boston, Mass., four brands, manufactured at Carteret, N. J.

In accordance with a Section 2 of the law, the Director of the Station has excused all manufacturers from depositing samples of fertilizers for 1895 who certified that they were willing for the analyses of the manufacturers' samples in 1894* to represent their goods for 1895. The affidavit made for 1894 therefore holds for 1895, as to the statement that the sample deposited "corresponds within reasonable limits to the fertilizer which it represents."

In the tables of analyses those numbers marked "S" represent new samples deposited for 1895. All other numbers represent samples deposited for 1894, whose composition is certified to hold for the the year 1895, and the results of their analyses are therefore copied from Bulletin 7, published in 1894.

* See Bulletin No. 7, Feb. 15, 1894.

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1895.

Numbers marked "S" are brands of which new samples have been analyzed.

Station Number.	Brand.	Manufacturer.	Place of Business.
1237	Americus Phosphate.....	Williams & Clark Fertilizer Co.....	Boston, Mass.
1239	Americus Potato and Cabbage Manure	" " " "	" "
1217	Bay State Fertilizer.....	Clark's Cove Fertilizer Co.....	New York, N.Y., or Boston, Mass.
1218	Bay State Fertilizer, G. G.....	" " " "	
1219	Bay State Fertilizer, Seeding Down	" " " "	
1252	Bowker's Amm. Dissolved Bone	Bowker Fertilizer Co.....	Boston, Mass.
1250	Bowker's Bone and Potash, Square Brand.....	" " " "	" "
1251	Bowker's Farm and Garden Phosphate.....	" " " "	" "
1257	Bowker's Fresh Ground Bone	" " " "	" "
1248	Bowker's Hill and Drill Phosphate.....	" " " "	" "
1256	Bowker's Potato Phosphate.....	" " " "	" "
1249	Bowker's Potato and Vegetable Manure.....	" " " "	" "
1247	Bowker's Sure Crop Phosphate	" " " "	" "
1268	Bradley's Complete Manure for Potatoes & Vegetables..S	Bradley Fertilizer Co.....	" "
1282	Bradley's Corn Phosphate.....	" " " "	" "
1266	Bradley's Eureka Fertilizer	" " " "	" "

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1895—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1269	Bradley's Potato Fertilizer.....	Bradley Fertilizer Co.....	Boston, Mass.
1267	Bradley's Potato Manure.....	" "	" "
1265	Bradley's X. L. Superphosphate	" "	" "
1264	Cleveland's Potato Phosphate	Cleveland Dryer Co.....	" "
1262	Cleveland's Seeding Down Fertilizer	" "	" "
1263	Cleveland's Superphosphate.....	" "	" "
1277	Columbia Brand Phosphate.....	E. Frank Coe Co.....	New York, N. Y.
1272	Crocker's Amm. Wheat and Corn Phosphate.....	Crocker Fertilizer and Chemical Co....	Buffalo, N. Y.
1270	Crocker's New Rival Superphosphate.....	" " " "	" "
1271	Crocker's Potato, Hop and Tobacco Phosphate.....	" " " "	" "
1273	Crocker's Superior Rye and Oats Phosphate.....	" " " "	" "
1280	Cumberland Concentrated Phosphate for Potatoes.....	Cumberland Bone Phosphate Co.....	Portland, Me.
1279	Cumberland Potato Fertilizer	" " " "	" "
1281	Cumberland Seeding Down Fertilizer.....	" " " "	" "
1278	Cumberland Superphosphate	" " " "	" "
1242	Dirigo Fertilizer	Sagadahoc Fertilizer Co.....	Bowdoinham, Me

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1895.—Continued.

Station Number.	Brand.	Manufacturer.	Place of Business.
1276	Farrar's Fertilizer	F. S. Farrar & Co.....	Bangor, Me.
1277	Farrar's Potato Fertilizer.....	F. S. Farrar & Co.....	" "
1284	Grange Chemicals.....	S Bowker Fertilizer Co.....	Boston, Mass.
1233	Great Eastern General Corn Phosphate	Great Eastern Fertilizer Co.....	Rutland, Vt.
1230	Great Eastern General Fertilizer.....	" " " "	" "
1231	Great Eastern General Grass and Oats Fertilizer.....	" " " "	" "
1232	Great Eastern General Potato Manure	" " " "	" "
1216	Great Planet	Clark's Cove Fertilizer Co.....	New York, N. Y.
1220	H. B. Fish, Bone and Potash	S Hiram Blanchard	Eastport, Me.
1285	H. B. Potato Fertilizer	S Hiram Blanchard	" "
1225	High Grade Phosphate.....	S E. Frank Coe Co.....	New York, N. Y.
1229	High Grade Potato Fertilizer	S E. Frank Coe Co.....	" "
1238	High Grade Special	Williams & Clark Fertilizer Co.....	New York and Boston.
1215	King Phillips Guano for Potatoes	Clark's Cove Fertilizer Co.....	New York, N. Y.
1283	Maine State Grange Chemicals.....	S Bowker Fertilizer Co.....	Boston, Mass.
1234	Nobsque Guano.....	Pacific Guano Co.....	" "

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1895—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1236	Pilgrim	John S. Reese & Co.	Baltimore, Md.
1245	Quinnipiac Potato Manure	The Quinnipiac Co.	New York, N. Y.
1243	Quinnipiac Market Garden	" " "	" " "
1244	Quinnipiac Phosphate	" " "	" " "
1246	Quinnipiac Seeding Down Manure	" " "	" " "
1236	Royal Bone Phosphate	Williams & Clark Fertilizer Co.	" " "
1259	Read's Standard	D. H. Foster.	Syracuse, N. Y.
1260	Read's Vegetable and Vine	S D. H. Foster.	" " "
1261	Read's Practical Potato Special	S D. H. Foster.	" " "
1241	Sagadahoc Hill and Drill	S Sagadahoc Fertilizer Co.	Bowdoinham, Me.
1240	Sagadahoc Special Potato	" " "	" " "
1235	Soluble Pacific Guano	Pacific Guano Co.	Boston, Mass.
1228	Special Potato Fertilizer	S E. Frank Coe Co.	New York, N. Y.
1254	Standard A. Brand.	Standard Fertilizer Co. .	Boston, Mass.
1222	Standard Complete Manure	" " "	" " "
1223	Standard Fertilizer	" " "	" " "

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1895—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1221	Standard Guano	Standard Fertilizer Co.....	Boston, Mass.
1226	Standard Grade Phosphate.....S	E. Frank Coc Co.....	New York, N. Y.
1255	Stockbridge's Corn, Grain and Fodder Crops.....	Bowker Fertilizer Co.....	Boston, Mass.
1253	Stockbridge's Potato and Vegetable Manure.....	" "	" "
1258	Stockbridge's Seeding Down.....S	" "	" "
1254	Stockbridge's Top Dressing.....S	" "	" "
1274	Tucker's Original Bay State Bone Superphosphate.....	Henry F. Tucker.....	" "
1275	Tucker's Special Potato Fertilizer.....	Henry F. Tucker.....	" "

ANALYSES OF MANUFACTURERS' SAMPLES, 1895.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.						Potash.		Station Number.			
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Available.	% Total.	% Found.	% Total.		% Guaranteed.	% Found.	% Guaranteed.
1237	Americus Phosphate	12.32	2.80	2.47	7.85	1.65	.79	9.50	9.00	10.29	10.00	2.63	2.00	1237		
1239	Americus Potato and Cabbage Manure .....	.....	.....	2.06	.....	.....	.....	.....	8.00	.....	9.00	.....	3.00	1239
1217	Bay State Fertilizer	12.48	2.72	2.47	8.10	1.57	.96	9.67	9.00	10.63	10.00	2.65	2.00	1217		
1218	Bay State Fertilizer, G. G	12.51	2.36	1.85	7.38	2.34	1.81	9.72	8.5	11.53	10.00	2.62	2.00	1218		
1219	Bay State Fertilizer, Seeding Down	9.48	2.33	1.02	7.18	2.55	1.89	9.73	8.00	11.62	10.00	2.59	2.00	1219		
1252	Bowler's Amm. Dissolved Bone	13.64	1.88	1.50	5.32	2.51	2.05	7.83	8.00	9.88	10.00	2.17	2.00	1252		
1250	" Bone and Potash, Square Brand	5.06	1.79	1.50	.....	6.40	7.19	6.40	4.00	13.59	11.00	2.21	2.00	1250	
1251	" Farm and Garden Phosphate	13.24	1.86	1.64	5.27	3.01	1.79	8.28	8.00	10.07	10.00	2.21	2.00	1251		
1257	" Fresh Ground Bone	5.73	3.10	2.46	.....	.....	.....	.....	5.00	17.49	18.00	.....	.....	1257
1248	" Hill and Drill Phosphate	14.00	2.60	2.46	7.36	1.87	3.08	9.23	9.00	12.31	12.00	2.52	2.00	1248		
1256	" Potato Phosphate	11.50	1.58	1.64	5.48	4.27	2.96	.....	8.00	12.71	10.00	1.92	2.00	1256	
1249	" Potato and Vegetable Manure	10.86	2.54	2.50	3.79	2.54	4.31	6.33	8.00	10.64	10.00	4.42	4.00	1249		
1247	" Sure Crop Phosphate	14.46	1.02	.82	4.09	3.75	4.07	7.84	8.00	11.91	11.00	1.16	1.00	1247		

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.							Potash.		Station Number.
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Total.	% Found.	% Total.	% Guaranteed.	% Found.	
1268	Bradley's Complete Manure for Potatoes and Veg....S	9.53	4.10	3.70	5.55	3.89	2.12	9.44	8.00	11.56	9.00	7.16	6.00	1268
1282	Bradley's Corn Phosphate .....S	16.94	2.59	2.06	6.79	3.78	1.42	10.57	9.00	11.39	10.00	1.68	1.50	1282
1266	" Eureka Fertilizer.....S	8.48	2.00	1.65	4.02	3.91	7.37	7.93	5.00	15.30	10.00	1.95	2.00	1266
1269	" Potato Fertilizer.....S	14.96	2.11	2.06	8.39	2.28	.93	10.67	9.00	11.60	11.00	3.07	3.24	1269
1267	" Potato Manure .....S	13.34	2.61	2.47	5.17	2.14	2.23	7.31	6.00	9.54	8.00	5.43	5.00	1267
1265	" X. L. Superphosphate .....S	15.09	2.70	2.47	7.55	3.58	1.48	11.13	9.00	12.61	11.00	2.27	2.00	1265
1264	Cleveland Potato Phosphate.	14.47	2.16	2.06	8.83	1.64	.97	10.47	8.00	11.44	10.00	3.21	3.00	1264
1262	" Seeding Down Fertilizer.....	8.94	1.65	1.65	6.25	2.89	2.39	9.14	5.00	11.53	10.00	2.23	2.00	1262
1263	" Superphosphate.....	12.25	2.39	2.06	7.38	2.51	1.92	9.89	9.00	11.81	11.00	2.71	2.00	1263
1227	Columbia Brand Phosphate.....S	9.18	1.33	1.00	7.09	2.36	2.89	9.45	9.00	12.34	11.00	1.68	1.85	1227
1272	Crocker's Amm. Wheat and Corn Phosphate.....S	11.20	1.90	2.00	7.85	2.68	1.14	10.53	10.00	11.67	11.00	1.72	1.60	1272
1270	" New Rival Amm. Superphosphate .....S	12.17	1.00	1.20	8.06	3.01	1.49	11.07	10.00	12.56	11.00	1.57	1.60	1270
1271	" Potato, Hop and Tobacco Phosphate.....S	10.55	2.04	2.00	7.78	2.56	1.07	10.34	10.00	11.41	11.00	3.65	3.25	1271

ANALYSES OF MANUFACTURERS' SAMPLES, 1895.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.								Potash.		Station Number.		
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Found.	% Total.	% Available.	% Found.	% Total.	% Guaranteed.		% Found.	% Guaranteed.
1273	Crocker's Superior Rye and Oats Phosphate	10.99	.86	.82	6.17	2.26	1.83	8.43	8.00	10.26	9.00	1.76	2.00	1273			
1280	Cumberland Concentrated Phosphate for Potatoes. S	13.93	3.80	3.30	5.62	3.56	2.05	9.12	8.00	11.17	10.00	7.11	7.00	1280			
1279	" Potato Fertilizer.....S	13.68	2.16	2.06	3.99	5.82	2.90	9.81	9.00	12.71	11.00	2.88	3.00	1279			
1281	" Seeding Down Fertilizer.....S	9.81	1.20	1.23	3.95	4.39	2.83	8.34	8.00	11.17	12.00	2.11	2.00	1281			
1278	" Superphosphate.....S	10.08	1.95	2.06	5.67	4.59	2.15	10.26	8.00	12.41	10.00	1.65	2.00	1278			
1242	Dirigo.....S	11.19	1.82	.....	2.70	2.52	7.99	5.22	6.00	13.21	10.00	3.62	3.50	1242		
1276	Farrar's Fertilizer	8.98	2.56	2.50	3.24	8.26	4.25	11.50	9.50	15.75	11.00	1.63	2.00	1276			
1277	" Potato Fertilizer.....S	8.97	2.33	2.50	3.03	7.19	5.99	10.22	9.50	16.21	11.00	3.32	3.00	1277			
1284	Grange Chemicals.....S	12.57	2.53	2.50	7.73	1.90	3.76	9.63	8.00	13.39	12.00	2.51	2.00	1284			
1233	Great Eastern General Corn Phosphate	13.59	3.06	3.00	3.84	5.36	.74	9.20	8.00	9.94	8.00	3.43	2.00	1233			
1230	" " Fertilizer.....S	13.78	1.10	.80	.69	9.25	2.26	9.94	8.00	12.20	8.00	4.72	4.00	1230			
1231	" " Grass and Oats Fertilizer.....S	8.70	.....	.....	4.11	6.88	4.08	10.99	10.00	15.07	10.00	2.15	2.00	1231	
1232	" " Potato Manure.....S	9.78	2.35	2.50	5.14	4.90	.68	10.04	8.00	10.72	8.00	5.71	4.00	1232			

ANALYSES OF MANUFACTURERS' SAMPLES, 1895.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.							Potash.		Station Number.		
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Found.	% Available.	% Total.	% Total.	% Guaranteed.			
1216	Great Planet.....	.....	.....	3.30	.....	.....	.....	.....	.....	8.00	.....	.....	9.00	.....	7.00	1216
1220	H. B. Fish, Bone and Potash.....	6.06	2.40	4.47	.....	1.93	1.05	1.96	3.00	3.01	5.15	14.08	6.00	.....	14.08	1220
1285	H. B. Potato Fertilizer	6.45	2.26	5.00	.....	2.41	1.11	2.41	5.00	3.52	7.00	10.62	6.00	.....	10.62	1285
1225	High Grade Phosphate (Coe).....	11.34	1.68	2.00	7.84	1.35	3.20	9.19	9.00	12.39	11.00	2.82	1.85	.....	2.82	1225
1229	High Grade Potato Fertilizer (Coe).....	6.58	2.22	2.40	6.42	1.89	2.97	8.31	8.00	11.28	9.00	6.64	6.00	.....	6.64	1229
1238	High Grade Special (Williams & Clark).....	9.61	3.97	3.70	7.10	2.50	.45	9.60	7.00	10.05	8.00	7.26	7.00	.....	7.26	1238
1215	King Phillip Guano for Potatoes.....	11.52	1.79	1.23	6.52	1.74	1.05	8.26	6.50	9.31	8.00	3.66	3.00	.....	3.66	1215
1283	Maine State Grange Chemicals	11.81	2.11	2.50	7.46	2.05	3.01	9.51	8.00	12.52	12.00	4.67	4.00	.....	4.67	1283
1234	Nobsque Guano.....	12.24	1.23	1.15	6.23	2.68	2.44	8.91	9.00	11.35	9.00	2.25	2.00	.....	2.25	1234
1286	Pilgrim	15.59	1.13	1.03	3.33	6.28	1.85	9.61	6.50	11.46	7.50	2.24	2.50	.....	2.24	1286
1245	Quinnipiac Potato Manure	9.34	2.71	2.47	5.85	1.82	2.26	7.67	6.00	9.93	7.00	5.80	5.00	.....	5.80	1245
1243	“ Market Garden	9.79	3.89	3.30	7.38	2.05	.65	9.43	8.00	10.08	9.00	7.47	7.00	.....	7.47	1243
1244	“ Phosphate	12.26	2.74	2.47	7.91	1.47	1.11	9.38	9.00	10.49	10.00	2.72	2.00	.....	2.72	1244

ANALYSES OF MANUFACTURERS' SAMPLES, 1895.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.						Potash.		Station Number.	
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Available.	% Total.	% Found.	% Guaranteed.		
1246	Quinnipiac Seeding Down Manure.....	12.86	1.23	.82	6.59	2.87	2.26	9.46	9.00	11.72	10.00	2.26	2.00	1246
1236	Royal Bone Phosphate	12.53	1.26	1.03	6.20	3.11	2.23	9.31	7.00	11.54	8.00	2.26	2.00	1236
1259	Read's Standard	12.34	1.08	.83	6.45	2.26	1.00	8.71	8.00	9.71	9.00	3.77	4.00	1259
1260	“ Vegetable and Vine.....	10.94	1.72	1.65	3.30	2.38	2.44	5.68	6.00	8.12	7.00	8.21	8.00	1260
1261	“ Practical Potato Special.....	10.20	1.01	.83	2.71	1.69	.54	4.40	4.00	4.94	5.00	8.24	8.00	1261
1241	Sagadahoc Hill and Drill.....	11.79	2.22	2.50	6.65	2.59	1.60	9.24	8.00	10.84	10.00	4.53	2.50	1241
1210	“ Special Potato*.....	.....	.....	3.00	.....	.....	.....	.....	7.00	.....	10.00	.....	8.00	1210
1255	Soluble Pacific Guano.....	12.30	2.37	2.27	7.33	2.42	1.85	9.75	8.50	11.60	10.50	2.61	2.00	1255
1228	Special Potato Fertilizer (Coe)	10.38	1.67	1.50	8.44	1.80	2.78	10.24	9.00	13.02	11.00	1.94	3.50	1228
1224	Standard A. Brand	12.62	1.27	1.23	6.70	2.72	2.26	9.42	8.00	11.68	12.00	2.37	2.00	1224
1222	Standard Complete Manure	11.24	3.56	3.30	5.49	4.21	2.38	9.70	8.00	12.08	9.00	6.94	7.00	1222
1223	Standard Fertilizer.....	12.46	2.44	2.00	7.36	2.64	1.96	10.00	8.00	11.96	10.00	2.67	2.00	1223
1221	Standard Guano.....	11.32	1.75	1.23	6.59	2.02	1.09	8.61	6.50	9.70	8.00	3.69	3.00	1221

* A sample was sent of this brand of goods, but a claim was subsequently made that it was not fairly drawn, so that no analysis is published in this bulletin.

ANALYSES OF MANUFACTURERS' SAMPLES, 1895.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.						Potash.		Station Number.
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Found.	% Total.	% Found.	% Guaranteed.	
1226	Standard Grade Phosphate (Coe).....S	10.24	1.60	1.75	7.88	2.16	3.03	10.04	8.00	13.07	1.02	1.35	1226
1255	Stockbridge's Corn, Grain and Fodder Crops	9.38	3.21	3.25	6.31	1.62	2.69	7.93	8.00	10.62	5.23	4.25	1255
1253	" Potato and Vegetable Manure	10.67	3.43	3.25	6.08	1.63	2.64	7.71	6.00	10.35	6.73	7.00	1253
1258	" Seeding Down	5.91	2.19	2.50	5.44	2.04	5.38	7.48	6.00	12.86	10.00	10.00	1258
1254	" Top Dressing.....S	8.68	4.66	5.00	5.82	1.34	1.90	7.16	4.00	9.06	6.30	6.00	1254
1274	Tucker's Original Bay State Bone Superphosphate..	9.30	2.01	2.00	6.77	2.68	2.25	9.45	9.00	11.70	2.20	1.85	1274
1275	Tucker's Special Potato Fertilizer.....	.....	.....	2.40	.....	.....	.....	.....	8.00	.....	.....	6.00	1275

MAINE STATE COLLEGE,
ORONO, ME., March 9, 1895. }



Ms. 19





